

ABSTRACT

A waveguide type optical module is provided which includes a temperature control element supported on pedestals inside a casing, and an optical
5 waveguide provided on the temperature control element. The heating control element includes a plate having a heater or heat absorber provided on a non-heating side thereof or buried therein. The plate is supported on the pedestals with less than 30% of the area thereof being in contact with the plate. Because of such a structure, the waveguide type optical module has a good
10 wavelength demultiplexing characteristic, and the temperature controller and control element for use in the optical module incur less occurrence of particle separation and shows a high homogeneity of plate-surface temperature distribution.